

Joint Committees Draft 2007 Strategic Transmission Investment Plan

Prepared in Support of the 2007 Integrated Energy Policy Report Proceeding

(06- IEP-1F)

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Transmission Evaluation Program



Topics Covered

- Summary of Key Findings and Recommendations
 - Chapter 1: New Developments Since 2005
 - Chapter 2: Removing Renewable Transmission Barriers
 - Chapter 3: In-state Transmission Corridor Planning
 - Chapter 4: In-state Transmission Projects
 - Chapter 5: Western Regional Transmission Issues
- Next Steps

Key Recommendations Relating to Recent Policy Drivers

- Continue staff participation in EPAct-05 Section 1221 (NIETC) effort.
- CAISO should implement its integrated transmission planning process in a timely fashion.
- CEC staff participation in CAISO subregional planning process.
- Monitor implementation of FERC Order 890 and continue staff participation in WECC's TEPPC.

Key Recommendations Relating to Removing Renewable Transmission Barriers

- Establish a more cohesive statewide approach for renewable development.
- Active staff participation in California Renewable Energy Transmission Initiative
 - http://www.energy.ca.gov/creti/index.html
 - As appropriate, vet and integrate CRETI results into the next Strategic Plan.
- CEC, CPUC, and CAISO should include stakeholders early and often.



Key Recommendations Relating to Removing Renewable Transmission Barriers

- CAISO Remote Resource Interconnection Policy should consider the benefits of renewable feed-in tariffs.
- CAISO should prioritize the interconnection queue based on project viability.
- CAISO should continue to approve new renewable interconnections before completion of network upgrades.
- CAISO should continue to investigate a clustered interconnection study approach for the Tehachapi project for use in other areas.

Key Recommendations Relating to Removing Renewable Transmission Barriers

- CAISO should coordinate and synchronize interconnection studies within its transmission planning process to the extent feasible.
- CPUC should continue to coordinate its generation procurement and transmission CPCN processes.
- Continue PIER funding of CERTS work on transmission system integration barriers and the PACT model.

Key Recommendations Relating to Instate Transmission Corridor Planning

- Support legislation that would allow IOUs to keep transmission corridor investments in their ratebase for as long as the CEC designates the corridor.
- When evaluating future transmission projects within a designated corridor, the CPUC and other permitting agencies should accept the need and environmental findings resulting from the CEC's transmission corridor designations.

Key Recommendations Relating to Instate Transmission Corridor Planning

- Encourage SB 1059 applications for three categories of corridors on non-federal lands:
 - Corridors that would provide access to renewable resource areas
 - Corridors that would interconnect with existing or proposed federal EPAct section 368 corridors
 - Existing corridors that may be required for future facility upgrades
- CAISO should consider designated corridors in its transmission planning process.

Key Recommendations Relating to Instate Transmission Corridor Planning

- Seek agreement among interested parties with similar transmission needs during development of Strategic Plan and before accepting a corridor designation application.
- Explore options for earlier consideration of non-wires alternatives in statewide planning processes.



In-state Transmission Projects

- Criteria for inclusion
 - On line by 2017
 - Requires permitting
 - Provides statewide benefits
- Data Sources
 - CAISO and utility transmission plans
 - Presentations and comments at IEPR workshops
 - Forms and Instructions data responses



In-state Transmission Projects

- Resulting Categories
 - 2005 Recommended Projects no change
 - 2007 Recommended Projects of Statewide Significance
 - 2007 Supported Projects of Local Significance
 - Projects Deferred to the 2009 Strategic Plan



Recommended Transmission Projects

2005 Recommended Projects

- Tehachapi Phase 1
- Palo Verde-DeversNo. 2
- Trans Bay Cable
- Sunrise Powerlink
- Imperial ValleyUpgrades

2007 Recommended Projects of Statewide Significance

- PG&E Central CA Clean Energy Transmission Project (CCCETP)
- Lake Elsinore AdvancedPumped Storage (LEAPS)Project [TL portion only]
- Green Path Coordinated Projects
- LADWP TehachapiTransmission Project
- SCE Tehachapi Expansion



2007 Recommended Projects of Statewide Significance

- PG&E and CAISO should convene a study group to develop need analysis for CCCETP.
 - If needed, PG&E should bring a corridor request to the CEC
- Permitting process for LEAPS should be divided into transmission and generation.
 - Permitting for Tallega/Escondido Valley/Serrano transmission line should proceed



2007 Recommended Projects of Statewide Significance

- IID should work collaboratively with other project proponents to develop mutually beneficial transmission projects in the Imperial Valley.
- LADWP should coordinate its Tehachapi transmission plans with SCE.
- Sunrise Powerlink, LEAPS transmission, and Green Path are critical for meeting renewable resource and GHG reduction standards.

Note: The Energy Commission is not endorsing specific routes for these projects.



2007 Supported Projects of Local Significance

- 2007 SMUD O'Banion Project
- SCE Magunden-Rector 230 kV
- SCE Devers-Mirage 230 kV
- SCE Alberhill 500/115 kV Substation
- SCE West of Devers upgrades
- SDG&E Orange County 230 kV



Projects Deferred to 2009 Strategic Plan

- SDG&E renewable substation
- PG&E Bay Area 500 kV substation
- Five TANC "Greek Letter" projects [α, β, δ, ε,
 ζ]
- MID Westley-Rosemead 230 kV project
- TID Westley-Marshall 230 kV project

Key Recommendations Relating to Western Regional Transmission Issues

- CEC's public outreach program should include education on benefits of regional transmission expansion.
- Continue and refine PIER research to address cost allocation and cost recovery issues for interstate projects.
- Staff should monitor status of regional projects that can help achieve state policy goals as they move beyond the conceptual stage.



Next Steps

September 27 Written comments due

October 24 Publish Joint Committees

Final 2007 Strategic

Transmission Investment Plan

November 7 Business Meeting Adoption



Public Comments on Draft Strategic Transmission Investment Plan

The conference call information is:

Toll Free Number: 888-857-6618

Passcode: IEPR, Call Leader: Lorraine White